000367

Calumet Container Company 3136 State Line Road Hammond, Indiana

I. SUMMARY, HISTORY, AND GENERAL INFORMATION:

Calumet Container Company, a division of Steel Container Corporation is a drum reconditioning operation that began in the 1960's and terminated with a fire on April 21, 1982. During its operational lifetime, Calumet Container recycled metal containers ranging in size from 55 gallon drums to 5 gallon pails along with various size fibre drums. The company property is located on both Indiana and Illinois and and is approximately 100 yards from a Wolf Lake channel extension and approximately 50 yards from Powerhorn Lake.

Since 1978 the Hammond Air Pollution Control department has been involved in litigation against Calumet Container in regard to groundwater contamination and the subsequent threat to Wolf Lake. A groundwater evaluation completed by Soil Testing Service in 1980 for the Illinois Attorney General's Office revealed the presence of Xylene, Toluene and Penolics, Cyanide and Manganese in both on and off site groundwater samples. The groundwater flow was determined to be in the direction of Wolf and Powerhorn Lakes. In conclusion, the report noted that the existing contaminents pose a threat to both Illinois and Indiana groundwater (See attached Soil Testing Services report).

Ther the fire of April 21, the U.S. EPA responded to a request from the City of Hammond, the State of Indiana, and the State of Illinois to undertake clean-up of the facility if and when the owner of the facility proved incapable of effective clean-up action. The owner, John Jagiella, filed for bankruptcy as a result of the fire which totally destroyed the plant building.

Initial investigation of the site by the Technical Assistance Team resulted the sampling of a sludge tank and two tank trailers on site. Also, a site survey disclosed the presence of 69 trailers on site. The majority of the trailers were being used as storage for empty metal drums and fiber drums, however, several trailers contained full or partially full drums of liquids, solids, and sludges. Aeromatic hydrocarbons, xylene, adhesives waste oil and lime were identified. (See Attached Report).

With the partial ways as OSC, the PPA unless took this site of a color of the superpositions. Reginning on the salay, Spail 19, 19-2 all scrap metal (from destroyed building) and coupty containers were inspected for hazardous materials before being allowed to leave the site.

On May 10, 1982, Chemical Waste Management, ENRAC Division, was contracted under CERCLA to immediately perform emergency clean-up of liquids, solids and sludges found in the sludge pit, chemical waste trap, septic tank and various process tanks in the plant. Also several drums were to be vacummed out.

On May 21, 1982, emergency action was completed and a total of approximately 5500 gallons of liquid and 30 cubic yards of sludge was removed to CID for disposal (See attached CERCLA summaries). With the conclusion of this action, further action on Calumet Container was referred for the remedial section for appropriate response.

II. SITE STATUS

). Security

- The Calumet Container site has not been fenced although warning signs have been placed on City of Hammond property along State Line Road. The City of Hammond has proposed that a fence be installed.
- The facility is not monitored and there is evidence of recent theft of plant equipment and empty drums.

On-Going Activities

- -- Since the completion of the emergency CERCLA clean-up the owner has continued demolition and haul of the building, and removal of empty container.
- The Indiana State Board of Health has required that all waste material be removed from the site within 90 days of the date of fire.
- The Illinois EPA has filed suit against the facility for cotamination of groundwater.

c). Current Information On Extent of Contamination

Air

- No information is available.

remoff collected after the fire indicated relatively high concentrations of: dichloromethane (85.3 ppb), dichloroethene (13.0 ppb), trichloroethene (24.9 ppb), trichloroethene (27.3 ppb), methylebenzene (109.6 ppb), chlorobenzene (28.0 ppb) and dimethylbenzene (84.3 ppb).

Groundwater

-- See Soil Testing Services report dated October 18, 1980.

Other

- Chemical residue patches were noticed on the ground throughout the site.
- Approximately 55 gallons of tar were noted on the ground east of the office trailer.
- d). Current Information on Human Health/Environment Impacts
- .. No information is available.

Site Safety Plan

-- A site safety plan was prepared and is attached to TDD 5-8204-11.

Health Effects

-- No information is available.

III. RECOMMENDED ACTIONS

- a). Security
- Install a snow fence around perimeter of the site to prevent unauthorized access.
- b). Extent of Contamination Studies

Air

- Not warrented at this time.

Surface Water

A sampling system should be established to determine extent of contamination of surface waters.

Soils

- Sufficient information is available at this time.

- Sufficient information is available at this time.
- c). Human Health/Environmental Impact
- Strict compliance with the site safety plan is required by all personnel conducting clean-up operation on site due to presence of hazardous material.

Epidemological Studies

- Not warranted at this time.

Damage Assessment

- Not warranted at this time.

d). Mitigative Techniques

Feasible Objectives

- Remove and dispose of all metal including drums, trailers, and roofing materials that does not contain liquid and/or solid waste.
- Test compatability of all material in drums and label drums.
- Bulk and dispose all liquids, solids, and sludges.
- Conduct a survey of the facility to locate buried containers.
- Remove contaminated soil and buried containers.

Paraval of Non-Contaminated Material

·	· · ·	
Equipment/Personnel	Days	Total
Frontend Loaders (2)/6 yards Crane (1) 16 yd. Open Top Tandems (2) Metal Cutting Equipment (2 Frontend Loaders with Fork -Lift Attachment (1)	20 20 20 20 20	\$22,560.00 16,000.00 12,160.00 2,000.00 5,680.00
Supervisor (1) Heavy Equipment Operators (4) Technicians (5) Skilled Tradesmen (2) Truck Drivers (2)	20 20 20 20 20	5,920.00 16,000.00 13,200.00 9,280.00 5,440.00
Tifety Equipment Overpacks (50) Pallets (100) and Banding	20	18,000.00 3,250.00 3,300.00 \$132,790.00
Compati	bility Testing	
Chemists (2) Tehcnicians (4) Safety Equipment (6) Sampling Equipment (250 drums)	5 5 5	4,140.00 2,640.00 2,250.00 1,250.00
Laboratory Analytical Testing	•	\$16,530.00
Bulking	and Disposal	
12 yd. 3 sludge boxes (3) Flatbed, Tandem Axle (1) Tanker Trailers (3) (6,000 gallons)	5 5 5	1,800.00 1,040.00 4,275.00
Tractor Rigs with Pump (4) Drum lift attachment (1) D-3 Wide Track Dozer (1) Drivers (4)	5 5 5 5 5	5,000.00 250.00 1,600.00 2,720.00
Heavy Equipment Operator (1) Foreman (1) Technicians (4)	_	1,000.00 920.00 2,640.00
Disposal (1,000 gallon/100 yd3	5	$\frac{5,500.00}{$26,745.00}$

Removal of Soil and Buried Containers

•		000372
Equipment/Personnel	Days	Total
Frontend Loaders (2) (6 yds.3 CAT 988)	15	\$16,980.00
16 yds. Tandems (4)	15	18,240.00
Tractors (4)	15	12,000.00
Heavy Equipment Operator (2)	15	6,000.00
Truck Drivers (4)	15	8,160.00
Foreman (1)	15	2,760.00
Disposal Cost (1,000 yds. 3)	15	17,000.00
		\$81,140.00



ACTION PLAN



Container Company Hammond, Indiana

		Escimated Cost	gesponsibili
Removal of oncontaminate Metal		133к	PA/Contract
mpatability sting		17K	@PA/Contract
lking and sposal		27K	PA/Contract
cility rvey		20K	ΔPA/Contυ :
il and Buried ntainer Removal		81K	PA/Contrac
Days 0 7 14 21	28 35 42 49	56 63	-

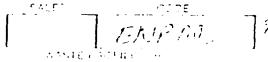
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	17-12KM2	2133
WASTE	^{រាក់មាន} មែន ១៩ ក់ព	0374

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PROBLES CONTROL OF AND AND CONTROL OF THE ARSENTATIVE SAMPLE RECEIVED ON	-
TENTIA ICATE TO A COMPLET RECEIVED: SAMPLE TAKEN:	
PROPOSED TREATMENT/DISPOSAL FACILITY:	

THE ANALYSES BELOW REPORTED WERE SELECTED BY ME, BASED UPON THE GENERATOR'S REPRESENTATIONS IN THE PROFILE SHEET AND ANY APPLICABLE WASTE ANALYSIS PLAN ESTABLISHED BY THE PROPOSED FACILITY FOR WASTE OF THIS TYPE. ANALYSES REQUIRED BY A WASTE ANALYSIS PLAN ARE INDICATED BY AN ASTERISK (*).

0475 05 1114/100				- <u>-</u>			
DATE OF ANALYSIS:	7		MANAGE				
South Soli	ב עלת	(D) S1.	MUS	Contrinse			
Test	Acceived	Leachale	Analyst Initials	Test	As Received	Leachate	Analys Initials
Specific Gravity			ì		T		1
OH 1072 SELUTION	8.6						
Acidity, % as	1			1			Γ
Alkalinity, % as				Phenois, mg/l	45.0		
C O D, mg/l				Cyanides, as CN, Total, mg/l	AIC.O		
B O D _s , mg/l				Cyanides, as CN. Free, mg/l			T
Total Solids @ 105°C	86.45%			1			
Total Dissolved Sulids, mg/l				Nitrogen, Ammonia, as N, mg/l			
Total Singland 1 State 1.4				Nitrogen, Organic, as N, mg/l			
Residue on Evidoration _ 50°C				Total Kjeldahl Nitropen, as N. mg/l			
Flash Point, F*	2.212			Total Alkalinity (P), as CaCO ₂ , mg/l			
Ash Content, on ignition				Total Alkalinity (M), as CaCO ₃ , mg/l		· · · · · · · · · · · · · · · · · · ·	
Heating Valve, BTU/Ib				Total Hardness, as CaCO ₁ , mg/l			
"Acid Scrub," gNaOH/g				Calcium Hardness, as CaCO ₂ , mg/l	ļ	· 	
Acid Scroot, givesing				Magnesium Hardness, as CaCO ₃ , mg/l			
Arsenic, as AS, mg/l	71.9	(0.0)					
Barium, as Ba, mg/l	920.				<u> </u>		
Boron, as Bi, mg/l	144			Oil and Grease, mg/l			
Capmerm, as Cd, mg/l	33.3	40.05					
	1380.	16.1					
Hexavalent Chromium @ Cr. mg/l	1-3-841	-,6.,		Aldrin, mg/l			
Jopper, as Cu. mg/l	299.			Chlordane, mg/l			
iron. Total as Fe. mg/l	^			DDT's, mg/l		 j	
Iron, dissolved, as Fe, mg/l				Dieldrin, mg/l			
	1930.	0.25		Endrin, mg'l			
Manganese, as Mn, mg/l		<u> </u>		Heptachlor, mg/l			
Magnesium, as Mg. mg/l				Lindane, mg/l			
Mercury, as Hg. mg/l	10.6			Methoxychiar, mg/l			
Nickel as Ni, mg/l	36.6			Toxaphene, mg/l		1	
	9.41	 †		Parathion, mg/l			
	1.80			2, 4, D, mg/l			
Zinc as Zn. mg/l	3350.	3.05		2, 4, 5, TP (Silvex), mg/l			
				PCB's, mg/l	≤5.C		
Bicarponates, as HCO ₃ mg/l						· · · · · · · }	
Carbonates as CO ₁ , 79/1							
Chlorides, as Cl. mg -							
Fluorides, as F, mg/i		-					
Nitrate as NO ₃ mg/i					+		
Nitrite, as NO ₂ mg/f							
Phosphate, as P. mg/l							
Sulfate as SO ₄ mg/l Sulfides as S. mg/l	٠, ۲						



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		REPRESENTATIVE SAMPLE RECEIVED ON	
, (Car.	wile received:	SAMPLE TAKEN.	2000
PACPOSED 1.	ATMENT/DISPOSAL FACILITY:		
		PERE SELECTED BY ME, BASED UPON THE	

BECASE MAITATIONS IN THE PROFILE SHEET AND ANY APPLICABLE WASTE ANALYSIS PLAN ESTAB-LISTED BY THE PROPOSED FACILITY FOR WASTE OF THIS TYPE. ANALYSES REQUIRED BY A WASTE ANALYSIS PLAN ARE INDICATED BY AN ASTERISK (*).

D1 - Calus	ne of 1	nATTA	INLI				
Test	As Received	Leachate	Analyst	Test	As Received	Leachate	Analysi
Specific Gravity	1	 		 	THE CENTED	 	1
pH	13.2		İ		 		
Acidity. % as	1		 	 	 		
National School Services	1.5			Phenois, mg/l	45.0		
O D, rng/l	-1-1:			Cyanides, as CN, Total, mg/l	<10.0		
B O D ₁ , mg/l	1			Cyanides, as CN. Free, mg/l			
Total Solids @ 105°C	7.63%				1		
Total Dis. 15, 19/1	7.83.			Nitrogen, Aminonia, as N. mg/l	 		
Total S. JI	-}			Nitrogen, Organic, as N. mg/l			
Residue on Evapo. 1 @ 180°C				Total Kieldahl Nitrogen, as N, mg/l	li		
				vois vije osin vonogen, so vi, mgr			
Flash Point, F ⁴	>212			Total Alkalinity (P), as CaCO ₂ , mg/l		·	
Ash Content, on ignition				Total Alkalinity (M), as CaCO ₃ , mg/l			1
Heating Valve. BTU/lb				Total Hargness, as CaCO ₄ , mg/l			
"Acid Scrub," gNaOH/g				Calcium Hardness, as CaCO ₁ , mg/l			<u> </u>
	-		-	Magnesium Hardness, as CaCO ₃ , mg/l			
Arsenic, as AS, mg/l	5.36 -						
Barium, as Ba, mg/l	136.						
Boron, as Bi, mg/l	† · · ·			Oil and Grease, mg/l			
Caomium, as Cd, mg/l	6.78						
Chromium, Total as Cr. mg/l	147.						
exavarent Chromium @ Cr. mg/l				Aldrin, mg/l			
popper, as Cu, mg/l	111.			Chlordane, mg/l			
iron, Total as Fe, mg/l				DDT's, mg/l			
Iron, dissolved, as Fe, mg/l				Dieldrin, mg/l			
Lead, as Pb, mg/l	339.			Endrin, mg/l			
Manganese, as Mn, mg/l				Heptachior, mg I			
Magnesium, as Mg, mg/l			i	Lindane, mg/l			
Mercury, as hig. mg/l	2.46			Methoxychior, mg/l			
Pirchel, as Nr. ing/l	2.88			Toxaphene, mg1			
Selenium, as Se. mg/l	₹0.50			Parathion, mg/l			
Silver, as Ag, ing/l	40.30			2, 4, 0, mg/l			
Zinc, as Zn, mg/i	373			2. 4, 5, TP (Silvex), mg/l			
				PCB's, mg/l	45.U		
Bicarbonates as HCO; mg/t							
Carbonales as CO ₂ , mg/l							
Chlorides, as CI, mg/i							
Fluorides, as F, mg/l							
Nitrate as NO ₁ , mg/l							
Nitrite as NO. mg/l							
Phosphale, as P, mg/l					1		
Sulfate: as SO ₄ mg/l							• • •
Sulfides, as S. mg/l Jacobsed	~ ; c	-					

SPECIAL WASTE ANALYSIS REPORT

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ROTHE SHEET PECEIVED ON:	000370
CLATIFICATE OF REP. SAMPLE RECLIVED:	•
PROPOSED TREATMENT/DISPOSAL FACILITY:	

THE ANALYSES BELOW REPORTED WERE SELECTED BY ME, BASED UPON THE GENERATOR'S REPRESENTATIONS IN THE PROFILE SHEET AND ANY APPLICABLE WASTE ANALYSIS PLAN ESTAB-LISHED BY THE PROPOSED FACILITY FOR WASTE OF THIS TYPE. ANALYSES REQUIRED BY A WASTE ANALYSIS PLAN ARE INDICATED BY AN ASTERISK (*).

DATE OF ANALYSIS:		LAB	MANAGE	R:			_
T-3 - Calus	nex Co	May	new				
Test	As Received	Leachate	Analyst Initials	Test	As Received	Leachale	Analyst Initials
Specific Gravity	 	·			1	 	†
рН	12.C		· · · · · · · · · · · · · · · · · · ·		1		
Acidity, % as	1.2.				 	 -	
Alkalin ty. % as UACH	1.1			Phenais, mg/l	45.0		
O D. ng/l				Cyanides, as CN, Total, mg/l	<10.0		
B O D ₁ , mg/l	 			Cyanides, as CN, Free, mg/l	11111		
Total Solids @ 105°C	39.347				 		 -
Total Dissolved 211 is, mg/l	+~1.29			Nitrogen, Ammonia, as N, mg/l			
T Guides S. A				Nitrogen, Organic, as N. mg/l			
Read a on Evaporation @ 1 x0°C	† <u>-</u>			Total Kjeldahl Nitrogen, as N, mg/l	†		†
	1				1	· · · · · · · · · · · · · · · · · · ·	
Flash Point, F*	2212			Total Alkalinity (P), as CaCO ₃ , mg/l	 		
Ash Content, on ignition	 			Total Alkalinity (M), as CaCO ₃ , mg/l	 		
Heating Valve, BTU/lb	1			Total Hardness, as CaCO ₃ , mg/l	 		l
"Acid Scrub." gNaOHig	 			Calcium Hardness, as CaCO ₂ , mg/l	 		
7,510	 			Magnesium Hardness, as CaCO ₃ , mg/l	 	· · · · · · · ·	
Arsenic, as AS, mg/l	2.29				 		
Barium, as Ba, mg/l	49.4				 		
Boron, as Bi, mg/l	+31.3	}		Oil and Grease, mg/l	 		
Caomium, as Cd, mizil	3.96	 - -		On and Grease, mg.	 		
Chromium, Total as Cr. mg/l	24.7				 		
Digital value Chromium @ Cr. mg/l	 			Alorin, mg/l	} }		
Deper, as Gu. mg/l	1/24			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 		
<u> </u>	62.9			Chlordane, mg/l	├		
iron Total as Fe, mg/l	 			DDT's, mg/l	[
Iron, dissolved, as Fe, mg/l	1 2 2			Dieldrin, mg/l	ļ		
Lead, as Pb. mg/l	91.9			Endrin, mg/l			
Manganese, as Mn, mg/l	 			Heptachlor, mg/l	-		
Magnesium, as Mg, mg/l				Lindane, mg/l			
Mercury, as Hg. mg/l	0.72			Melnoxychlor, mg/l			
Nickel, as Ni, mg/l	8.00			Toxaphene, mg/l			
Selenium, as Se, mg/l	1.99			Parathion, mg/i			
Silver, as Ag, mg/l	16.0			2, 4, D, mg/l			
Zinc, as Zn, mg/l	119.	1		2. 4. 5. TP (Silvex), mg/l			
	 			PCB's, mg/l	<5.0		
Bicarbonales, as HCO ₂ , mg/l	 						
Carbonates as CO ₃ mg/l							
Chlorides, as Cl, mg/i							-· 1
Fluorides, as F, mg/l							- 1
Nitrate, as NOs. mg/l							- 1
Nitrite, as NO. mg/l							- 1
Pnosphate, as P. mg/l							1
Sullate, as SO ₄ mg/l							1
Sultides as S. mg/l decides	< 2.c						1
2025. 22. 2. W. V. C. INVER						·	,

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2:		الخال	2 9 4	13		$-\Omega M \Omega$	∖ I ▼	$\supset 1$	o .	H	t= }-	U	H	ı

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SOME START OF CENTROLONS	CACH STOUTATIVE SAMPLE BY COIVED ON	
CONTINUATE OF REP. SAMPLE BECEIVED.	900377	
See ald reflect attent/DISPOSAL FACILITY:		

THE ANALYSES BELOW REPORTED WERE SELECTED BY ME, BASED UPON THE GENERATOR'S REPRESENTATIONS IN THE PROFILE SHEET AND ANY APPLICABLE WASTE ANALYSIS PLAN ESTABLISHED BY THE PROPOSED FACILITY FOR WASTE OF THIS TYPE. ANALYSES REQUIRED BY A WASTE ANALYSIS PLAN AHE INDICATED BY AN ASTERISK (*).

DATE OF ANALYSIS: _____ LAB MANAGER: _____

T-1 - (Nu	As Received	Leachate	Analyst Initials	Test	As Received	Leachate	Analyst Initials
Specific Gravity	Thece:ved		•	 	HECEIVEO		- Initials
рН	50				<u> </u>		1
Acidity, % as		-					1
Alkalinity, % as A.A.C./	(.1			Pnenois, mg/l	45.0		1
C O 0, mg/l				Cyanides, as CN, Total, mg/l	<10.0		1
B O D _s , mg/l				Cyanides, as CN, Free, mg/l			
Total Solids @ 105°C	0.72%						
Total Dissolved Solids, mg/l				Nitrogen, Ammonia, as N, mg/l			1
Total Suspended Solids, mg/l				Nitrogen, Organic, as N, mg/l			
Residue on Evaporation @ 180°C				Total Kjeldahl Nitrogen, as N. mg/l			
Flash Point, F*	2212			Total Alkalinity (P), as CaCO2, mg/l			
Ash Com con				Total Alkalinity (M), as CaCOs, mg/l			<u> </u>
,				Total Hardness, as CaCOs, mg/l			L
<u>s</u>				Calcium Hardness, as CaCO2, mg/l			
				Magnesium Hardness, as CaCO ₃ , mg/l			
g/l	0.86						
num, as ∃a. mg/l	18.5						
Soron, as Bi, mg/l				Oil and Grease, mg/l			
Capmium, es Cd. r. g/l	0.94						
Chromium Total as Cr, mg/l	16.4						
Hexavaient Chromium @ Cr, mg/l				Aldrin, mg/l			
Copper, as Cu, mg/l	19.46			Chlordane, mg/l			
Iron, Total as Fe, mg/l				DDT's, mg/l			
Firon, dissolved, as Fe, mg/l				Dieldrin, mg/l			
Lead, as Pb. mg/l	32.6			Endrin, mg/l			
Manganese, as Mn. mg/l	<u> </u>			Heplachlor, mg/l			
Magnesium, as Mg, mg/l				Lindane, mg/l			
Mercury, as Hg, mg/l	0.56			Methoxychlor, mg/l			
Nickel, as Ni, mg/l	Ke.20			Toxaphene, mg/l			
Selenium, as Se, mg/l	0.15			Parathion, mg/l			
Silver, as Ag. mg/l	40.06			2, 4, D, mg/l			
Zinc. as Zn, mg/l	59.9			2, 4, 5, TP (Silvex), mg/l			
				PCB's, mg/I	<5·D		
	 	+					
Bicarbonates, as HCO ₃ mg/l	 					 	
Carbonates, as CO ₃ , mg/l	∤					}	
Chlorides as CI mg/I	 						- 1
Fivorides as F. mg/l	 	f ·					
Narate, as NO ₃ , mg/l	 						
Nitrite, as NO. mg/l	 						4
Phosphate, as P. mg/l	 	·					
Sullate, as SO ₄ mg I	1			· · · ·			{
Sulfides as Simgil	14.2.C	ł		1	1	1	Į.

SPECIAL WASTE ANALYSIS REPORT

SALES	2005	
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	BURNESS MATERIAL	

TO STATE OF THE ST	<u>.</u>	WASTER HOLDER TO THE]					
FIRE OF ELERGENIED ON,	REFRESENTATIVE SAV	PLE RECEIVED 000378.						
	المناسب السادات	a contraction						
PROPOSED TREATMENT/DISPOSAL FACILITY:								

THE ANALYSES BELOW REPORTED WERE SELECTED BY ME, BASED UPON THE GENERATOR'S REPRESENTATIONS IN THE PROFILE SHEET AND ANY APPLICABLE WASTE ANALYSIS PLAN ESTABLISHED BY THE PROPOSED FACILITY FOR WASTE OF THIS TYPE. ANALYSES REQUIRED BY A WASTE ANALYSIS PLAN ARE INDICATED BY AN ASTERISK (*).

DATE OF ANALYSIS: LAB MANAGER: _ T-2 Calumes Containe Analyst Initials As Received **Analyst** Test Leachate Test Leachate Received Initials Sc ρН 13.1 Acid , . Alkalinity, S 1.1 Phenois, mg/l 45.0 Vire 11 O D, mg/l Cyanides, as CN, Total, mg/l 410.0 8 O Ds. mg/l Cyanides, as CN, Free, mg/l Total Solids @ : 5°C 3.70% Total Dissolved Solids, mg/l Nitrogen, Ammonia, as N, mg/l Total Suspended Solids, mg/l Nitrogen, Organic, as N. mg/l Residue on Evaporation @ 180°C Total Kjeldahl Nitrogen, as N, mg/l Flash Point, F* Total Alkalinity (P), as CaCO2, mg/l 7212 Ash C it chilion Total Alkalinity (M), as CaCOs, mg/l Hea: J/Ib Total Hardness, as CaCO₃ mg/l ۾-DH/q Calcium Hardness, as CaCO₂, mg/l Magnesium Hardness, as CaCOs, mg/l 4.53 uin, as Ba, mu/l 6.43 Oil and Grease, mg/l Boron, as Bi, mar 0.67 Cacmium. mg/l Chromic as Cr. mg/l 19.6 mium @ Cr. mg/l Aldrin, mg/l 14.2 Chlordane, mg/l .ng/l DDT's, mg/l e. mg/l د د solved, as Fe, mg/l Dieldrin, mg/l 27.7 Endrin, mg/l Lead as Pb. mg/l Manganese, as Mn, mg/l Heptachior, mg/l Magnesium, as Mg, mg/l Lindane, mg/l 1.21 Methoxychior, mg/l Mercury, as Hg, mg/l 2.42 Toxaphene, mg/l Nickel, as Ni, mg/l Selenium, as Se. mg/l 1.43 Parathion, mg/l Silver, as Ag. mg/l 40.06 2, 4, D, mg/l Zinc. as Zn. mg/l **72.L** 2, 4, 5, TP (Silvex), mg/l PCB's, mg/l 45.72 Bicarbonales, as HCO₂, mg/l Carbonales as COs. mg/l Chlorides, as Cl. mg/l Fluorides, as F. mg/l Nitrate as NOL mg'i Nitrite as NO. mg/l Prosphale, as P. mg/l Sullate as SO. mg'l

Sullides as S. mg" Linelyel

42 C